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FIG. 1

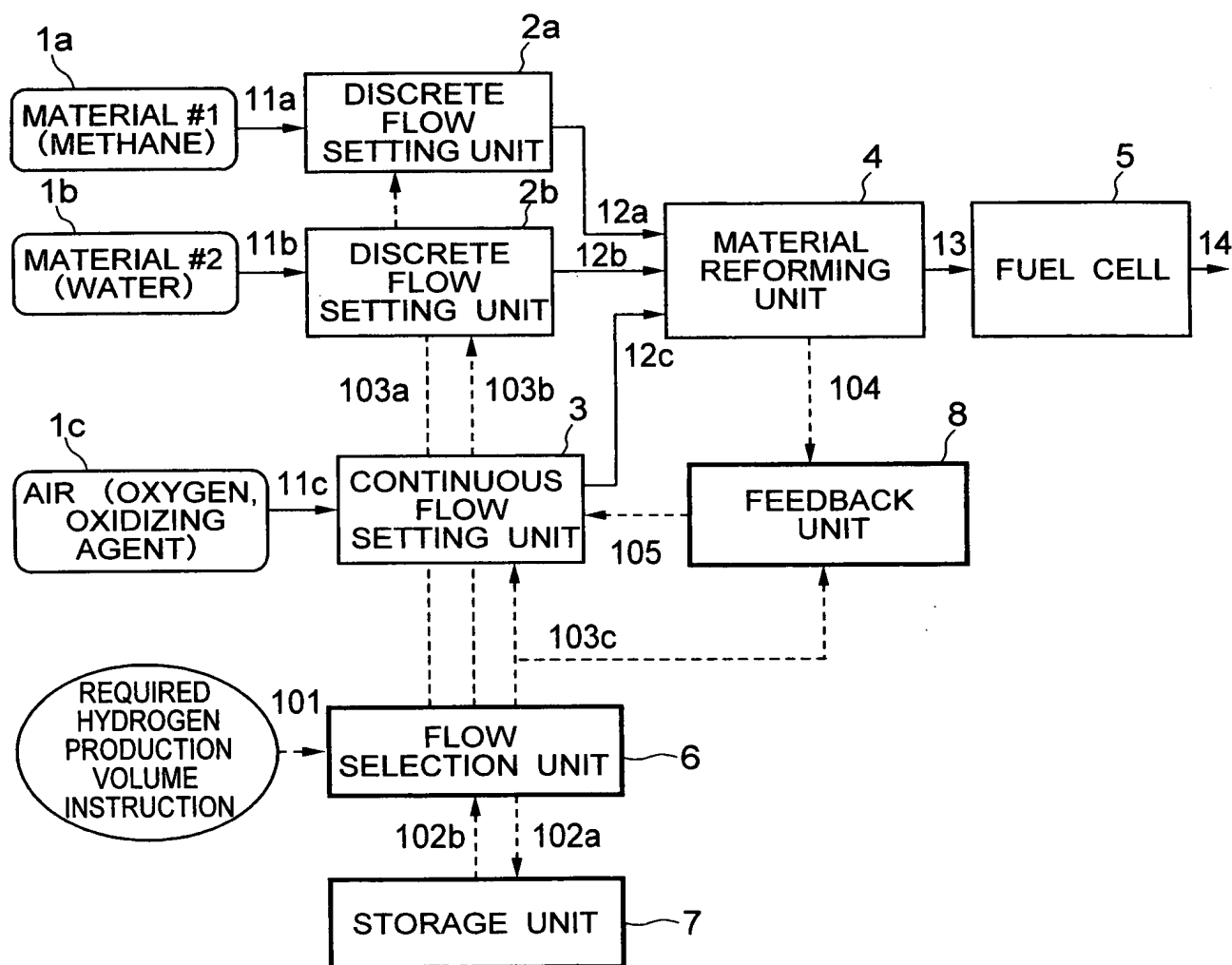


FIG. 2A

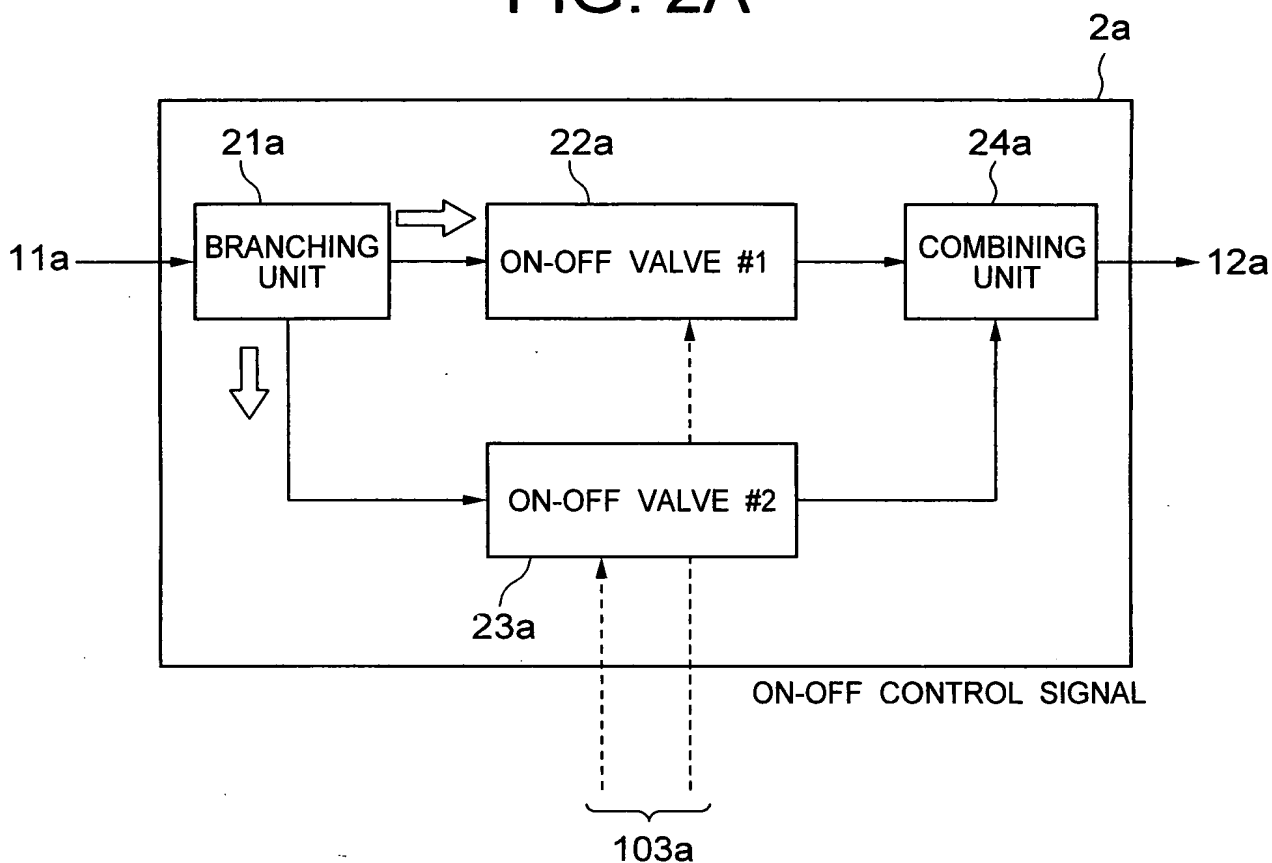


FIG. 2B

RELATIONSHIP BETWEEN OPEN/CLOSE OF
VALVES AND SUPPLIED MATERIAL FLOW

| | | ON-OFF VALVE #1 | |
|-----------------|-------|-----------------|-----------|
| | | CLOSE | OPEN |
| ON-OFF VALVE #2 | CLOSE | REACTION STOP | LOW FLOW |
| | OPEN | MIDDLE FLOW | HIGH FLOW |

FIG. 3

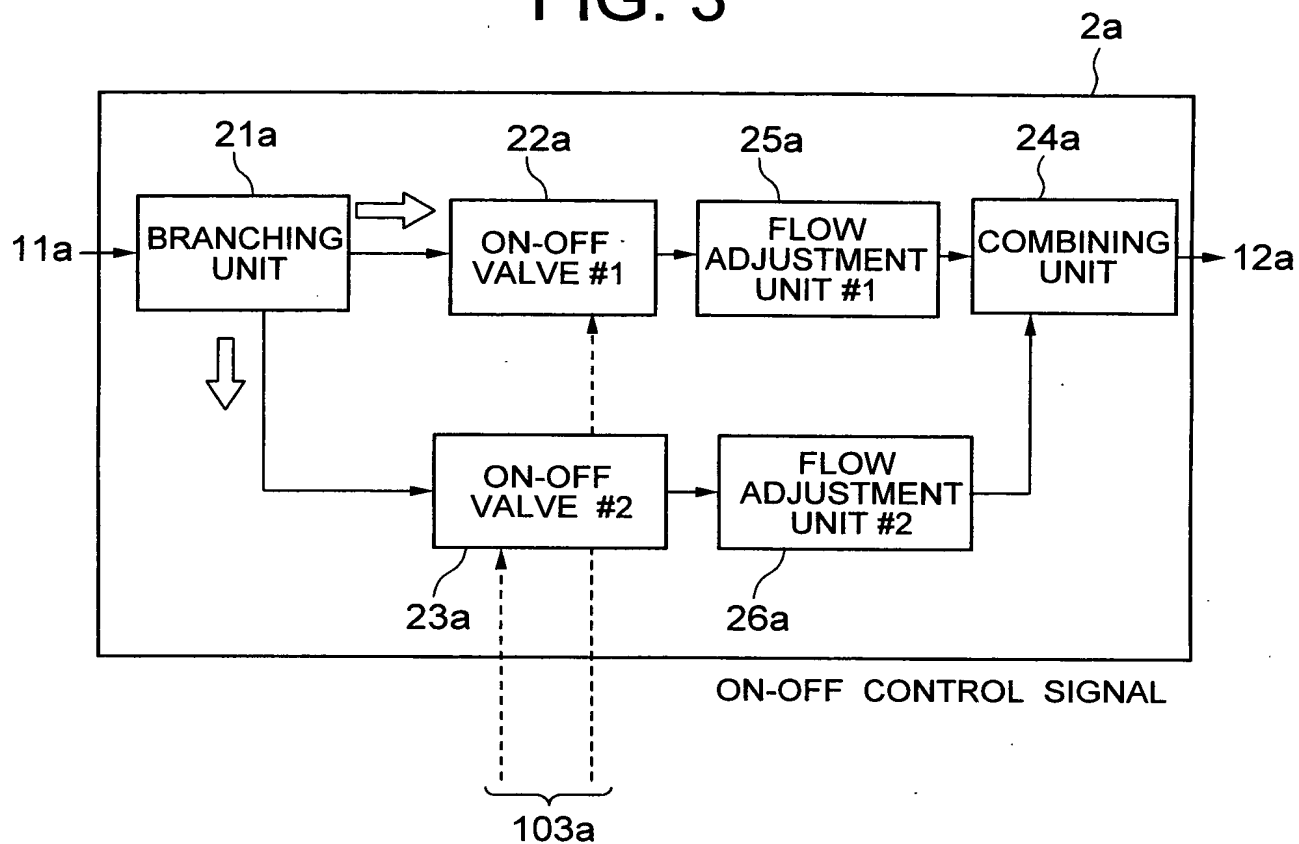


FIG. 4

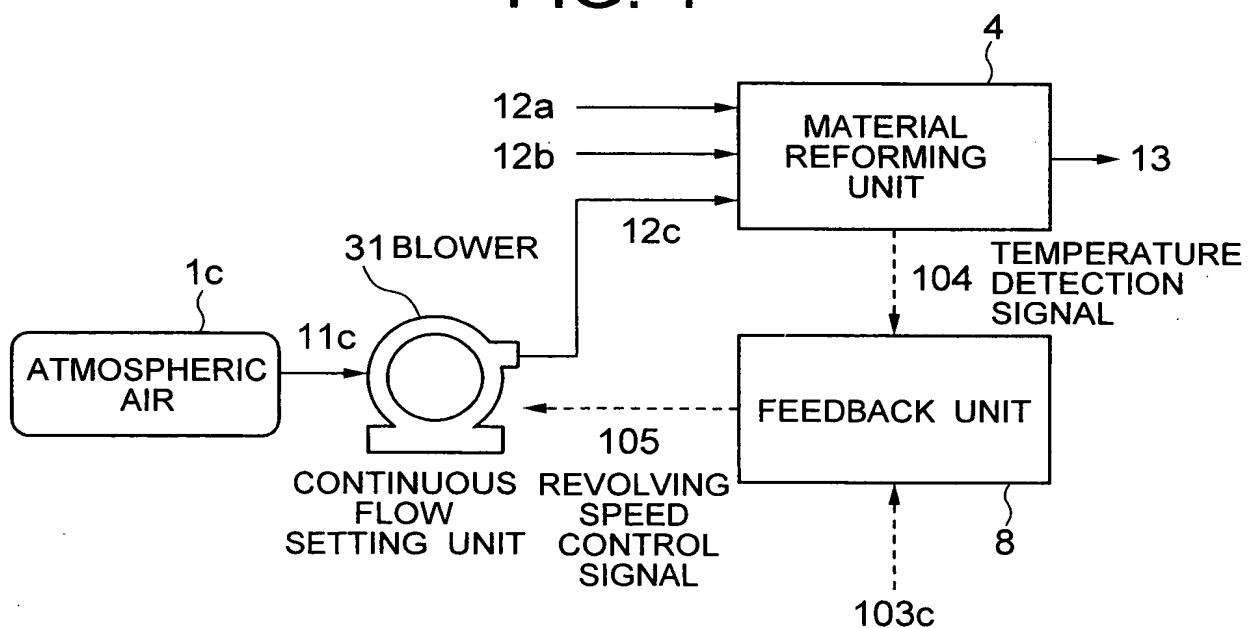


FIG. 5

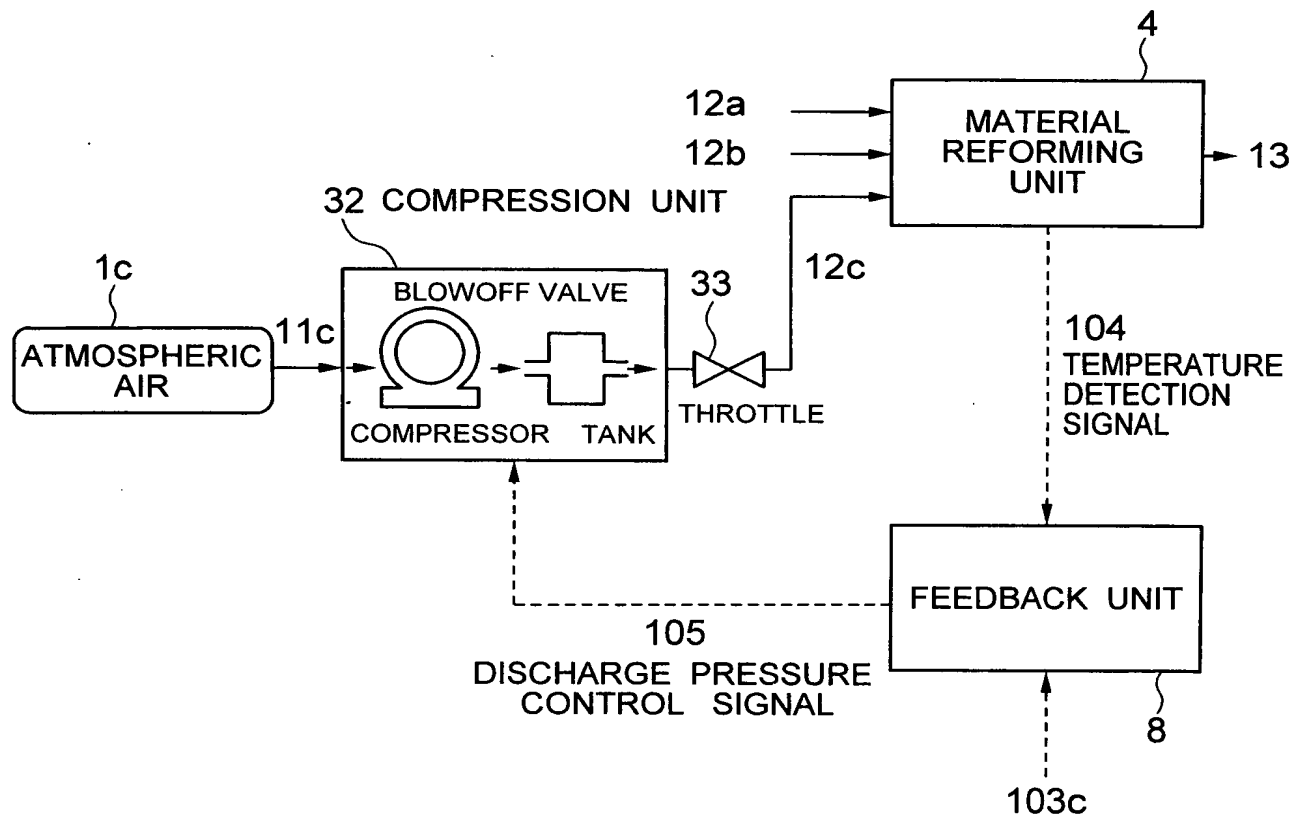
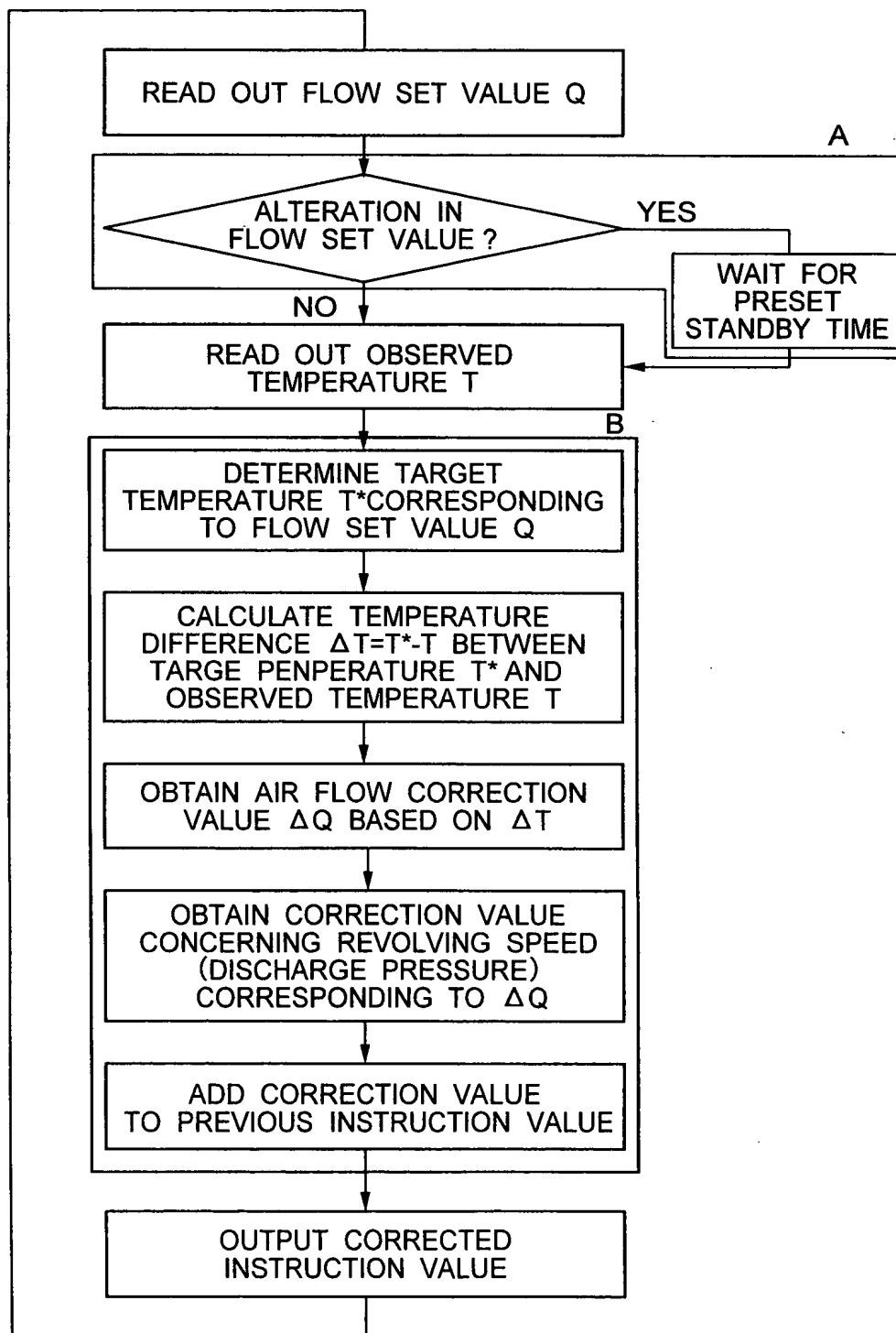
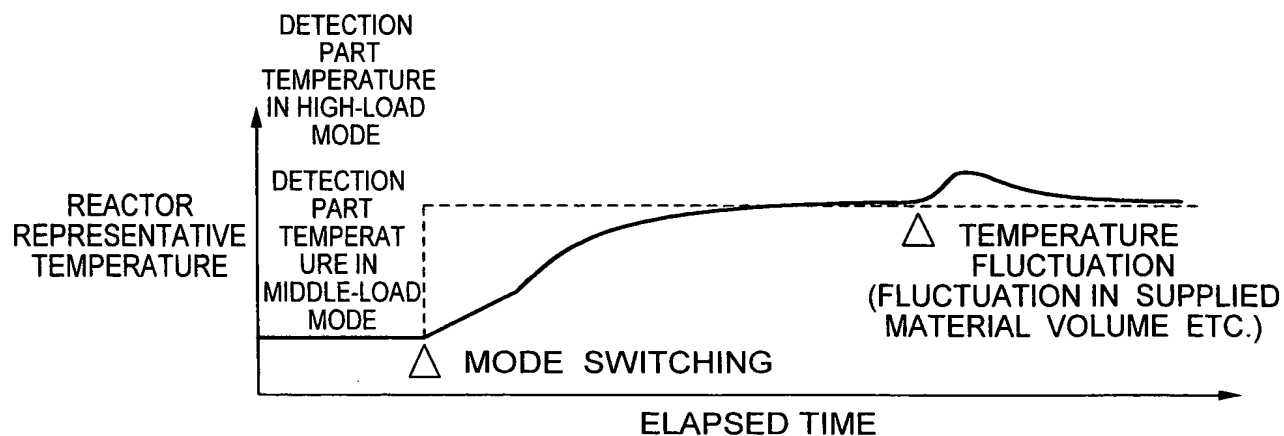
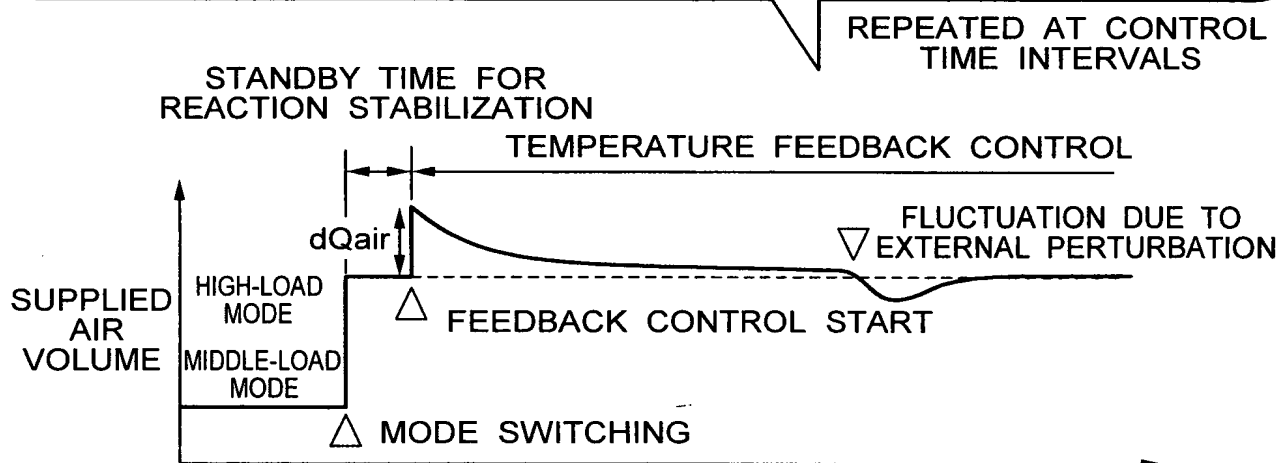
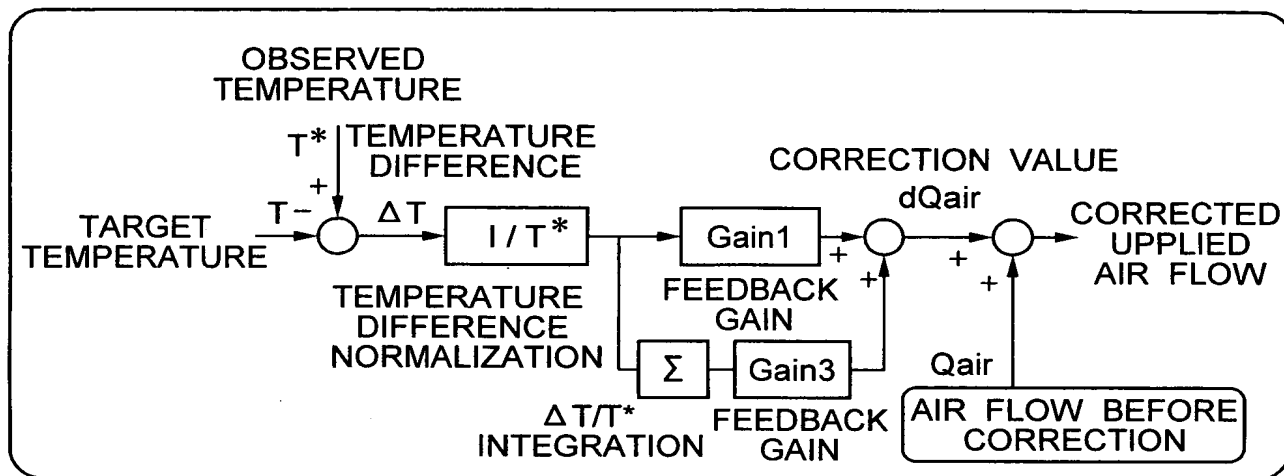


FIG. 6



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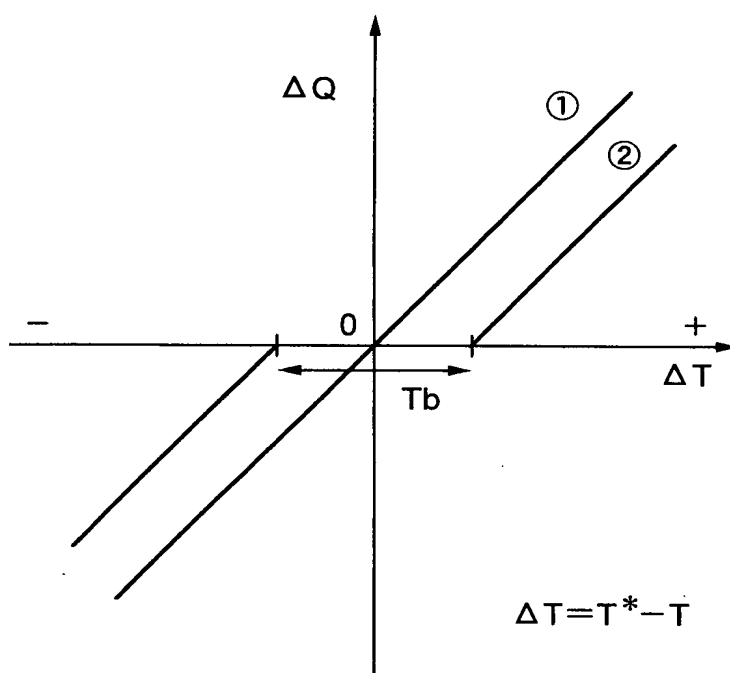
FIG. 7



EXPLANATION ON CHANGE OF SUPPLIED AIR VOLUME
(UNDER OPERATION MODE SWITCHING
AND EXTERNAL PERTURBATION)

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FIG. 8



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FIG. 9

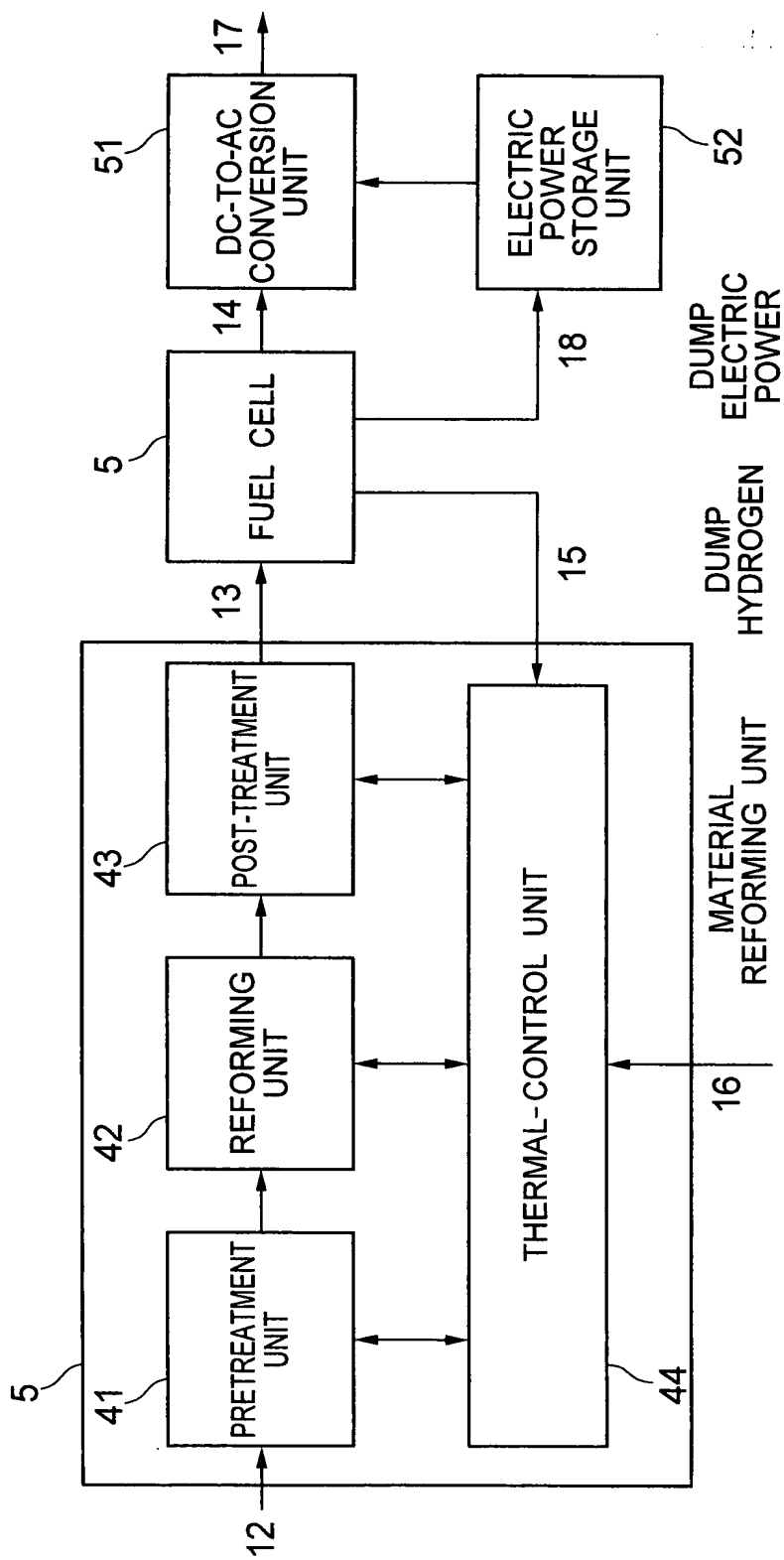


FIG. 10A

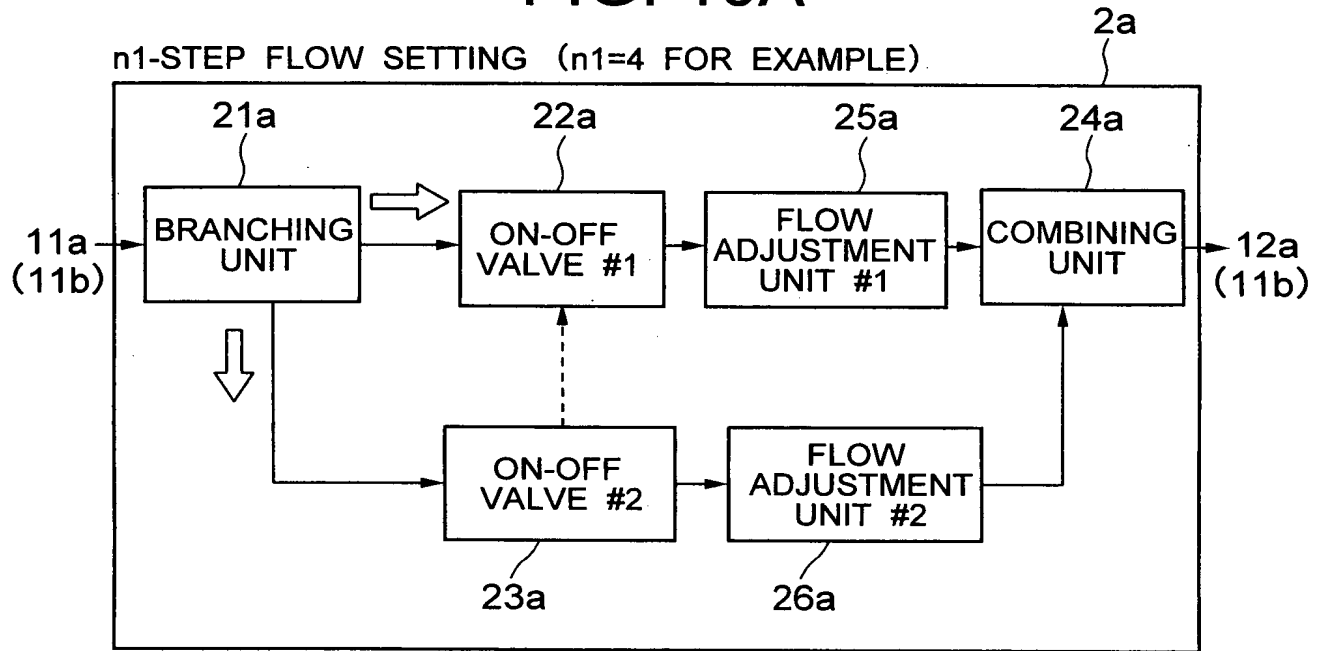


FIG. 10B

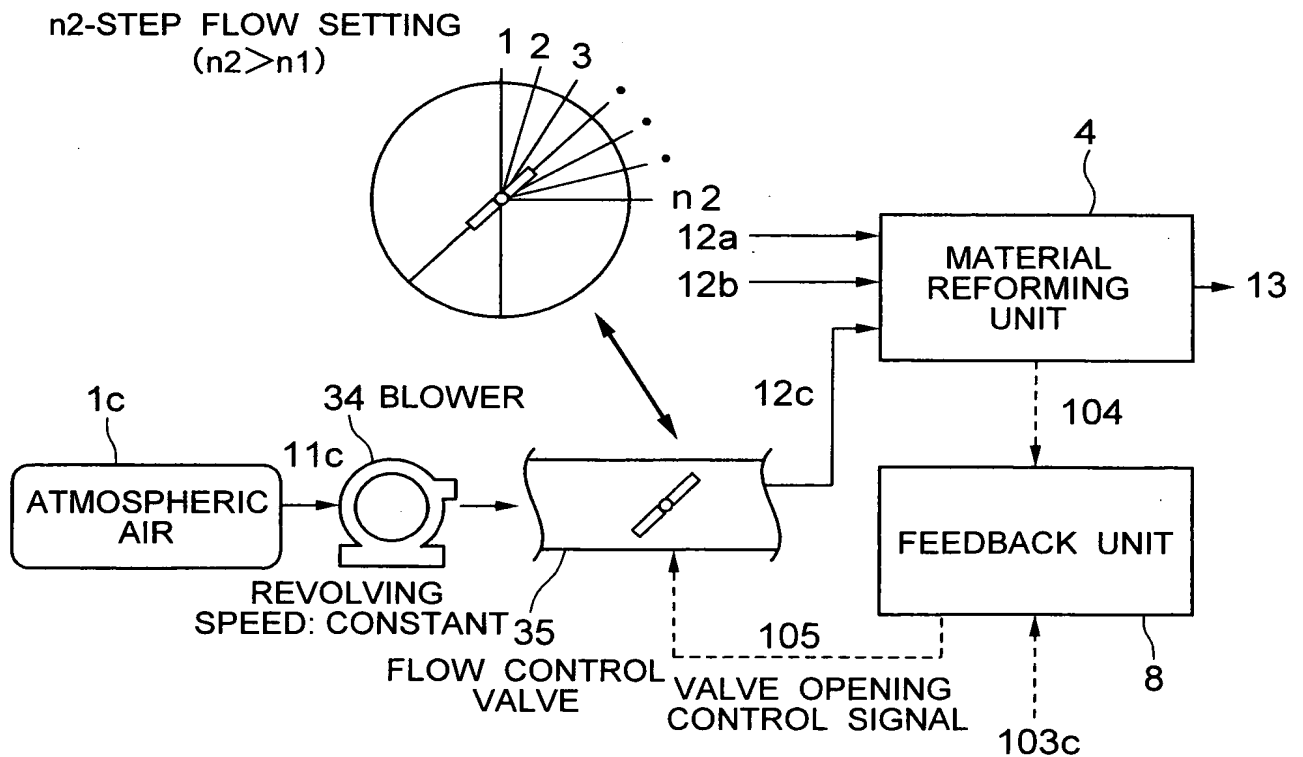


FIG. 11

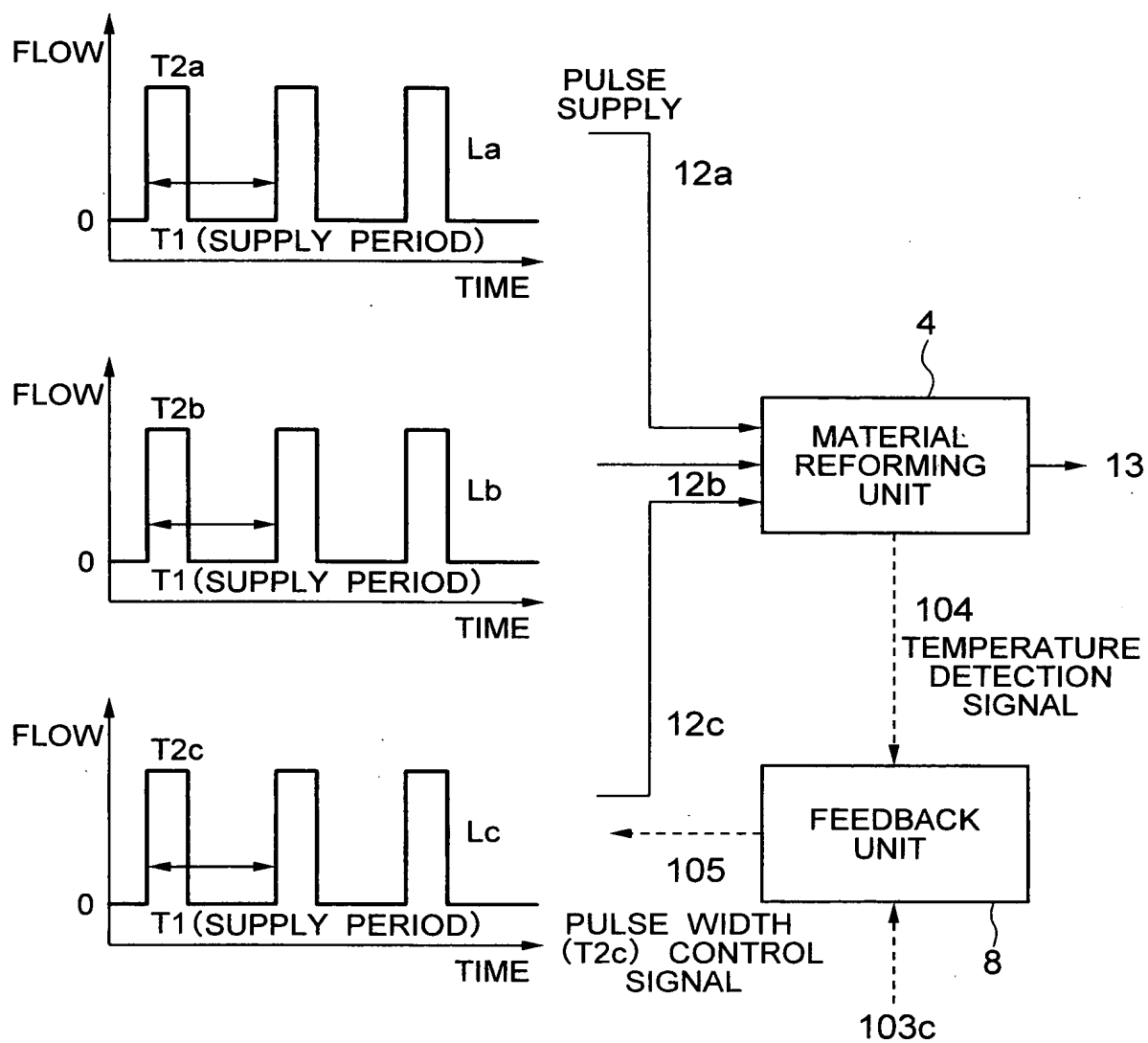


FIG. 12A

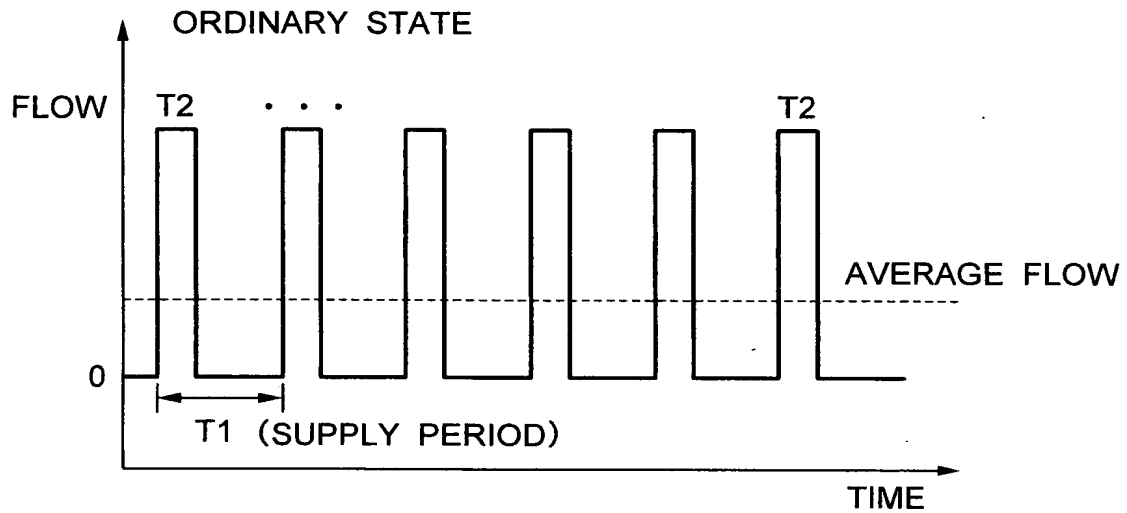


FIG. 12B

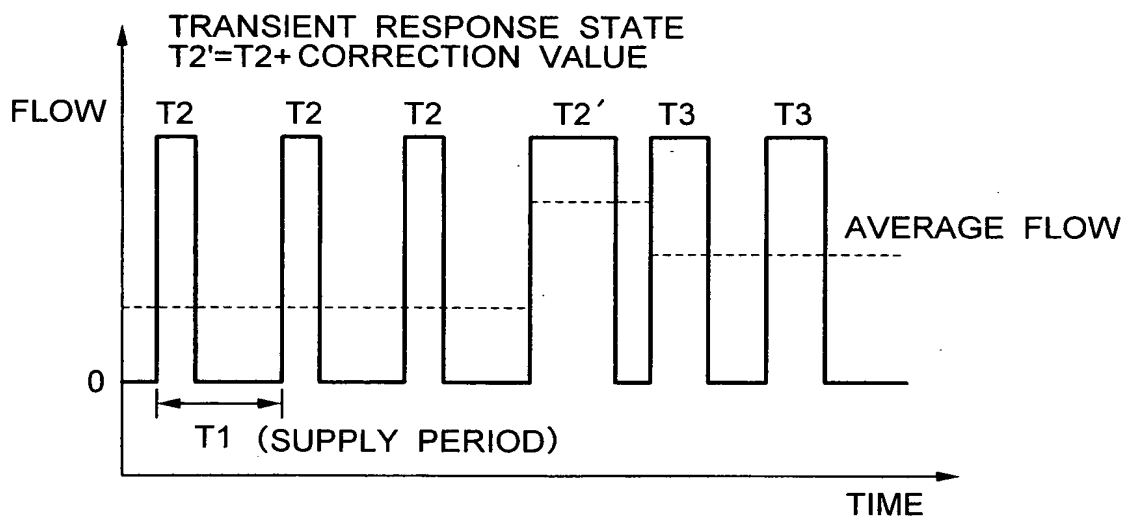


FIG. 13

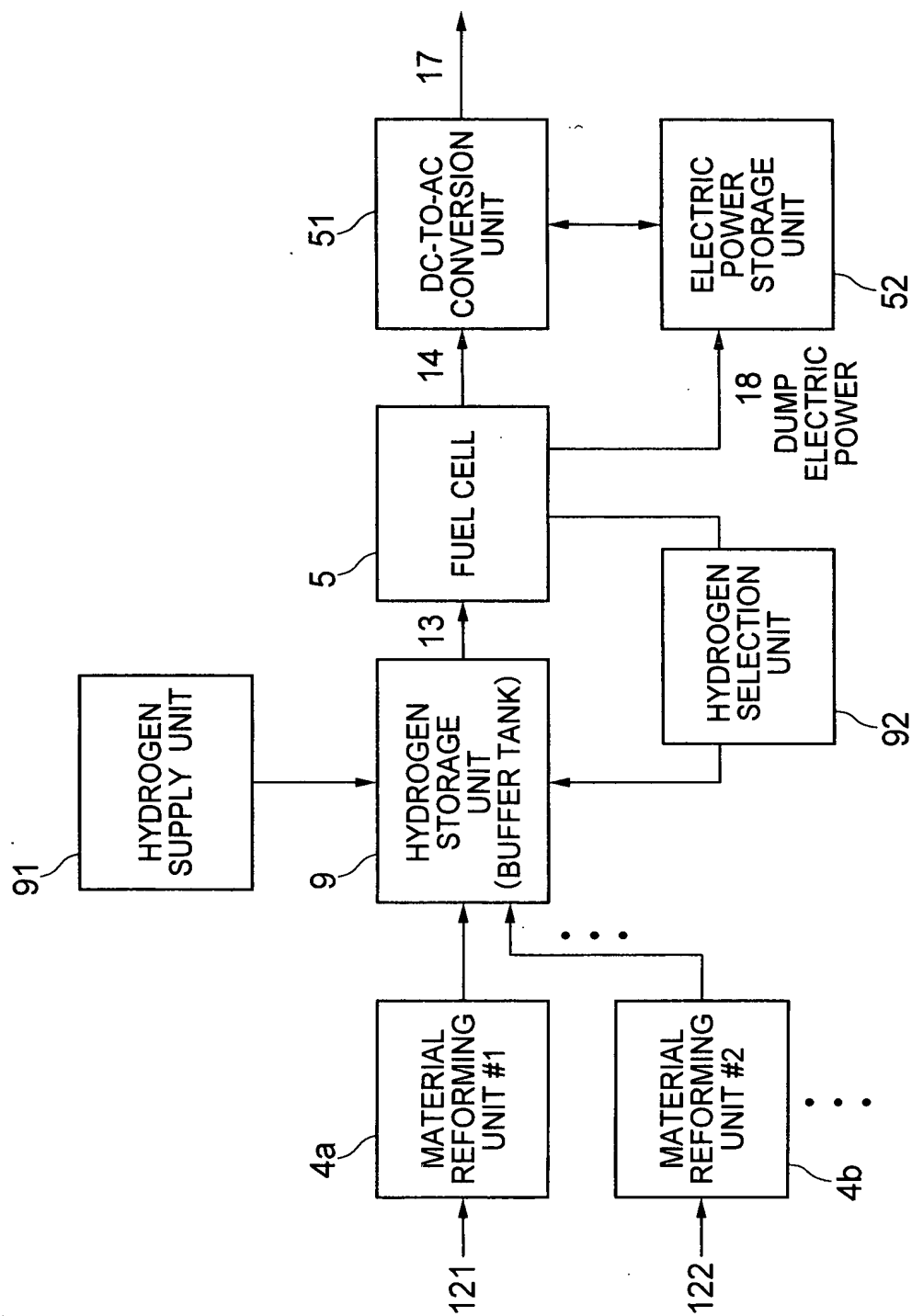


FIG. 14

FIG. 14

